

AMENDMENTS TO THE CLAIMS

The following list of claims replaces all previous claims, and listings of claims, in the application.

1. (Currently amended) A starting system for a single-phase induction motor comprising:
a stator having a running coil (11) and a starting coil (12), a power source (F) which supplies current to said running coil (11) and said starting coil (12);
a running switch (S1) and a starting switch (S2), respectively connecting the running coil (11) and starting coil (12) to the power source (F) when in a closed condition, said starting switch (S2) being conducted to an open condition upon completion of the motor start; and
a control unit (30) supplied by the power source (F) and operatively connected to the running switch (S1) and the starting switch (S2) in order to instruct the open and closed conditions thereof, wherein characterized in that:
said control unit (30) is programmed to operate the running switch (S1) in order to cause a delay in the supply of the current supplied to the running coil (11) in relation to the supply of the current supplied to the starting coil (12) during the motor start for a determined time interval which is previously defined and considered from the zero-crossing moment of the current supplied to the stator.
2. (Currently Amended) The system as set forth in claim 1, wherein characterized in that each moment the supply current of the starting coil (12) reaches zero, the control unit (30) instructs the running switch (S1) to open, which condition is maintained during the determined time interval, after which the control unit (30) instructs the running switch (S1) to close.
3. (Currently Amended) The system as set forth in claim 1, wherein characterized in that the delay in supplying the current to the running coil (11) is at maximum 90 degrees.
4. (Currently Amended) The system as set forth in claim 1, which includes a current sensor (20) connected between the power source (F) and the stator and operatively connected to the

control unit (30), ~~wherein characterized in that~~ the current sensor (20) informs the control unit (30) each moment the current supplied to the stator reaches zero.

5. (Currently Amended) The system as set forth in claim 1, ~~wherein characterized in that~~ at least the running switch (11) is a semi-conductor.

6. (Currently Amended) The system as set forth in claim 5, ~~wherein characterized in that~~ the running switch (11) is a triac.

7. (Currently Amended) The system as set forth in claim 1, ~~wherein characterized in that~~ predetermined time interval (t) is previously defined as a function of the constructive characteristics of the motor (10).